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Notice of Allowability	Application No.	Applicant(s)
	10/786,361	HANSEN, MATTHEW E.
	Examiner	Art Unit
	Andrew Hwa S. Lee	2877
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/13/05</u> .		
2. The allowed claim(s) is/are <u>8 and 10-26</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
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Attachment(s) 1. Notice of References Cited (PTO-892)	5 Notice of Informal P	atent Application (PTO-152)
Notice of Preferences Cited (FTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
,	Paper No./Mail Dat	e
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. Examiner's Amenda	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	. —	ent of Reasons for Allowance
	9.	
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DETAILED ACTION

In view of the terminal disclaimer, claims 8 and 10-26 are allowed.

The following is an examiner's statement of reasons for allowance:

With regards to claim 8, the prior art of record fails to show or suggest a method as presently claimed having the combination of the reticle having more than one periodic feature, using rows of at least one of vertical, horizontal, and tilted lines as a periodic feature, and detecting an interference pattern in the image of the reticle substantially <u>simultaneously</u> at multiple locations and in a direction coaxial with the optical axis.

With regards to claim 10, the prior art of record fails to show or to suggest a method comprising of all the steps as presently claimed wherein the object plane extends over a range of depths through the object space and the periodic patterns are imaged onto an image volume.

Claims 11-25 are allowable by virtue of their dependence on claim 10.

With regards to claim 26, the prior art of record fails to show or to suggest an apparatus comprising of all the elements as presently claimed wherein image of a reticle having more than one periodic feature thereon is projected within a volume of image space and the interference patterns in the image at different locations comprising different depths of focus within the volume of image space is detected.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Hwa S. Lee whose telephone number is 571-272-2419. The examiner can normally be reached on Tue-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley Jr. can be reached on 571-272-2800 ext 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Hwa Lee Primary Examiner Page 3

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